



REQUIRED BEARING AREA OF THRUST BLOCKS

PIPE SIZE	TEE & DEAD END	90° BEND	45° BEND	22-1/2° BEND
6"	8 SQ. FT.	12 SQ. FT.	6 SQ. FT.	3 SQ. FT.
8"	14 SQ. FT.	20 SQ. FT.	11 SQ. FT.	5 SQ. FT.
10"	23 SQ. FT.	32 SQ. FT.	17 SQ. FT.	9 SQ. FT.
12"	32 SQ. FT.	45 SQ. FT.	24 SQ. FT.	12 SQ. FT.

NOTES:

1. ALL CONCRETE TO BE CLASS B.
2. CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL OR VERTICAL), AT SIZE CHANGES, AND AT ALL FIRE HYDRANTS AND PLUGS. BEARING SURFACE OF BLOCKS TO EXTEND TO UNDISTURBED GROUND.
3. ANCHOR BLOCKS WITH TIE-DOWN ROD FOR VERTICAL BENDS SHALL BE INSTALLED WHERE REQUIRED BY THE ENGINEER. BLOCK MASS SHALL BE DESIGNED TO RESIST THRUST AND SHALL BE APPROVED BY THE CITY ENGINEER.
4. AREAS SHOWN ARE FOR EACH THRUST BLOCK.

REV	DATE	APPROVED	DESIGN
			DRAWN
			CHECKED
			APPROVED BY
			<i>David H. H. H.</i>
			CITY ENGINEER
			DATE 10/1/71

CITY OF MILPITAS
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
STANDARD DRAWING

LOCATION OF THRUST BLOCKS

NO. 704

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W 5/12/64
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